AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

What is claimed is:

- (Original) An isolated human antibody or fragment thereof that specifically binds to insulin-like growth factor-I receptor (IGF-IR) and has at least one property selected from the group consisting of
 - (i) inhibits binding of IGF-I or IGF-II to IGF-IR;
 - (ii) neutralizes activation of IGF-IR by IGF-I or IGF-II;
 - (iii) reduces IGF-IR surface receptor by at least about 80%; and
 - (iv) binds to IGF-IR with a K_d of about 3 x 10⁻¹⁰ M⁻¹ or less.
- 2. (Original) The antibody or antibody fragment of Claim 1, which has all of said properties.
- 3. (Original) The antibody or antibody fragment of Claim 1, wherein the antibody or antigen binding fragment thereof reduces surface IGF-IR by at least about 85%.
- 4. (Original) The antibody or antibody fragment of Claim 1, wherein the antibody or antigen binding fragment thereof reduces surface IGF-IR by at least about 90%.
- 5. (Original) The antibody or antibody fragment of Claim 1, which binds to IGF-IR with a K_d of about 1 x 10⁻¹⁰ M⁻¹ or less.
- 6. (Original) The antibody or antibody fragment of Claim 1, which binds to IGF-IR with a K_d of about 5 x 10⁻¹¹ M⁻¹ or less.
- 7. (Original) The antibody or antibody fragment of Claim 1, which inhibits phosphorylation of a downstream substrate of IFG-IR.
- 8. (Original) The antibody or antibody fragment of Claim 7, wherein the downstream substrate is selected from the group consisting of MAPK, Akt, and IRS-2, and phosphorylation is inhibited by about 50% or more.
- 9. (Original) The antibody or antibody fragment of Claim 1, which promotes tumor regression *in vivo*.
- 10. (Original) The antibody or antibody fragment of Claim 1, which promotes tumor regression *in vivo* when administered with an anti-neoplastic agent.

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11. (Original) The antibody or antibody fragment of Claim 1, which competes for binding to IGF-IR with an antibody selected from the group consisting of the antibody having a heavy chain variable domain represented by SEQ ID NO:2 and a light chain variable domain represented by SEQ ID NO:6; and the antibody having a heavy chain variable domain represented by SEQ ID

NO:2 and a light chain variable domain represented by SEQ ID NO:10.

- 12. (Currently Amended) The antibody or antibody fragment of Claim 1, which specifically binds to insulin-like growth factor-I receptor (IGF-IR) and comprises at least one complementarity-determining region (CDR) having an amino acid sequence selected from SEQ ID NO:14 at V_HCDR1, SEQ ID NO:16 at V_HCDR2, SEQ ID NO:18 at V_HCDR3, SEQ ID NO:20 at V_LCDR1, SEQ ID NO:22 at V_LCDR2, SEQ ID NO:24 at V_LCDR3, SEQ ID NO:26 at V_LCDR1, SEQ ID NO:28 at V_LCDR2, and SEQ ID NO:30 at V_LCDR3.
- 13. (Original) The antibody or antigen binding fragment of Claim 1, which comprises SEQ ID NO:14 at V_HCDR1, SEQ ID NO:16 at V_HCDR2, and SEQ ID NO:18 at V_HCDR3.
- 14. (Original) The antibody or antigen binding fragment of Claim 1, which comprises SEQ ID NO 20 at V_LCDR1, SEQ ID NO:22 at V_LCDR2, and SEQ ID NO:24 at V_LCDR3.
- 15. (Original) The antibody or antigen binding fragment of Claim 1, which comprises SEQ ID NO 26 at V_LCDR1, SEQ ID NO:28 at V_LCDR2, and SEQ ID NO:30 at V_LCDR3.
- 16. (Original) The antibody of Claim 1, wherein the heavy chain variable domain has at least 90% sequence homology to SEQ ID NO:2.
- 17. (Original) The antibody of Claim 1, wherein the light chain variable domain has at least 90% sequence homology to SEQ ID NO:6.
- 18. (Original) The antibody of Claim 1, wherein the light chain variable domain has at least 90% sequence homology to SEQ ID NO:10.
- 19. (Original) An isolated nucleic acid encoding a polypeptide selected from the group consisting of:

 SEO ID NO:2 from about amino acid residue 1 to about amino acid residue 130:
 - SEQ ID NO:2 from about amino acid residue 1 to about amino acid residue 130; SEQ ID NO:6 from about amino acid residue 1 to about amino acid residue 109; and SEQ ID NO:10 from about amino acid residue 1 to about amino acid residue 109.
- 20. (Original) The isolated nucleic acid of Claim 19, selected from the group consisting of: SEQ ID NO:1 from about nucleotide 1 to about nucleotide 390;

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- SEQ ID NO:5 from about nucleotide 1 to about nucleotide 327; and SEQ ID NO:9 from about nucleotide 1 to about nucleotide 327.
- 21. (Original) A recombinant vector comprising a nucleic acid of Claim 19.
- 22. (Original) A host cell comprising the vector of Claim 21.
- 23. (Currently Amended) A pharmaceutical composition comprising the antibody or antibody fragment of Claim 1 and a pharmaceutically acceptable carrier.
- 24. (Currently Amended) A conjugate comprising the antibody or antibody fragment of Claim 1 linked to a cytotoxic agent.
- 25. (Currently Amended) A conjugate comprising the antibody or antibody fragment of Claim 1 linked to a label.
- 26. (Currently Amended) A therapeutic composition effective to inhibit growth of human tumor cells that express IGF-IR, which composition comprises the antibody or antigen binding fragment of Claim 1.
- 27. (Original) The therapeutic composition of Claim 26, which further comprises an antineoplastic agent.
- 28. (Original) The therapeutic composition of Claim 27, wherein the anti-neoplastic agent is an inhibitor of topoisomerase I or topoisomerase II.
- 29. (Original) The therapeutic composition of Claim 27, wherein the anti-neoplastic agent is selected from the group consisting of irinotecan, camptothecan, and etoposide.
- 30. (Currently Amended) A therapeutic composition effective to promote regression of human tumors that express IGF-IR, which composition comprises the antibody or antibody fragment of Claim 1.
- 31. (Original) The therapeutic composition of Claim 30, which further comprises an antineoplastic agent.
- 32. (Original) The therapeutic composition of Claim 31, wherein the anti-neoplastic agent is an inhibitor of topoisomerase I or topoisomerase II.
- 33. (Original) The therapeutic composition of Claim 31, wherein the anti-neoplastic agent is selected from the group consisting of irinotecan, camptothecan, or etoposide.

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- 34. (Currently Amended) A method of neutralizing the activation of IGF-IR, which comprises administering to a mammal an effective amount of the antibody or antibody fragment of Claim 1.
- 35. (Currently Amended) A method of treating a proliferative disorder comprising the step of administering an effective amount of the antibody or antibody fragment of Claim 1.
- 36. (Original) The method of Claim 35, wherein the proliferative disorder is selected from the group consisting of acromegaly, retinal neovascularization, and psoriasis.
- 37. (Currently Amended) A method of inhibiting the growth of a cell that expresses IGF-IR, which comprises contacting the cell with an effective amount of the antibody or antibody fragment of Claim 1.
- 38. (Original) The method of Claim 35, which further comprises contacting the cell with an effective amount of an anti-neoplastic agent.
- 39. (Original) The method of Claim 38, wherein the anti-neoplastic agent is an inhibitor of topoisomerase I or topoisomerase II.
- 40. (Original) The method of Claim 38, wherein the anti-neoplastic agent is selected from the group consisting of irinotecan, camptothecan, and etoposide.
- 41. (Currently Amended) A method of reducing tumor growth which comprises administering to a mammal an effective amount of the antibody or antibody fragment of Claim 1.
- 42. (Original) The method of Claim 41, which further comprises administering an effective amount of an anti-neoplastic agent.
- 43. (Original) The method of Claim 42, wherein the anti-neoplastic agent is an inhibitor of topoisomerase I or topoisomerase II.
- 44. (Original) The method of Claim 42, wherein the anti-neoplastic agent is selected from the group consisting of irinotecan, camptothecan, and etoposide.
- 45. (Currently Amended) A method of promoting tumor regression which comprises administering to a mammal an effective amount of the antibody or antibody fragment of Claim 1.
- 46. (Original) The method of Claim 45, which further comprises administering an effective amount of an anti-neoplastic agent.

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- 47. (Original) The method of Claim 46, wherein the anti-neoplastic agent is an inhibitor of topoisomerase I or topoisomerase II.
- 48. (Original) The method of Claim 46, wherein the anti-neoplastic agent is selected from the group consisting of irinotecan, camptothecan, and etoposide.
- 49. (Original) The method of any one of Claims 41 to 48, wherein the tumor is a breast tumor, colorectal tumor, pancreatic tumor, ovarian tumor, lung tumor, prostate tumor, bone or soft tissue sarcoma or myeloma.
- 50. (Original) A method of inhibiting the growth of a cell that expresses IGF-IR, which comprises contacting the cell with an effective amount of an agent that is an inhibitor of topoisomerase I or topoisomerase II and an antibody or antigen binding fragment thereof that specifically binds to IGF-IR and has at least one property selected from the group consisting of
 - (i) inhibits binding of IGF-I or IGF-II to IGF-IR;
 - (ii) neutralizes activation of IGF-IR by IGF-I or IGF-II;
 - (iii) reduces IGF-IR surface receptor; and
 - (iv) binds to IGF-IR with a K_d of about 1 x 10⁻¹⁰ M⁻¹ or less.
- 51. (Original) A method of reducing growth of a tumor that expresses IGF-IR, which comprises contacting the cell with an effective amount of an agent that is an inhibitor of topoisomerase I or topoisomerase II and an antibody or antigen binding fragment thereof that specifically binds to IGF-IR and has at least one property selected from the group consisting of
 - (i) inhibits binding of IGF-I or IGF-II to IGF-IR;
 - (ii) neutralizes activation of IGF-IR by IGF-I or IGF-II;
 - (iii) reduces IGF-IR surface receptor by at least about 80%; and
 - (iv) binds to IGF-IR with a K_d of about 1 x 10⁻¹⁰ M⁻¹ or less.
- 52. (Original) A method of promoting regression of a tumor that expresses IGF-IR, which comprises contacting the cell with an effective amount of an agent that is an inhibitor of topoisomerase I or topoisomerase II and an antibody or antigen binding fragment thereof that specifically binds to IGF-IR and has at least one property selected from the group consisting of
 - (i) inhibits binding of IGF-I or IGF-II to IGF-IR;

- (ii) neutralizes activation of IGF-IR by IGF-I or IGF-II;
- (iii) reduces IGF-IR surface receptor by at least about 80%; and
- (iv) binds to IGF-IR with a K_d of about 1 x 10⁻¹⁰ M⁻¹ or less.

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- 53. (Original) The method of any one of Claims 50 to 52, wherein the agent is selected from the group consisting of irinotecan, camptothecan, and etoposide.
- 54. (Original) The method of any one of Claims 50 to 52, wherein the antibody or antibody fragment is human.
- 55. (Original) The method of any one of Claims 50 to 52, wherein the antibody or antibody fragment is humanized.
- 56. (Original) The method of any one of Claims 51 and 52, wherein the tumor is a breast tumor, colorectal tumor, pancreatic tumor, ovarian tumor, lung tumor, prostate tumor, bone or soft tissue sarcoma or myeloma.